Bringing Innovative Semantic Technology to Practice: The iQser Approach and its Use Cases

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Abstract: This paper presents the iQser approach, a new semantic technology promising to overcome some of the shortcomings of current semantic enterprise solutions. The iQser technology is based on a powerful middleware platform (called iQser GIN platform). This practically-approved platform enables enterprises to efficiently develop effective semantic applications integrating various sources of structured and unstructured data. Goal is to enable users to gain new insights into complex information domains. In order to illustrate the practical relevance of the approach the paper also discusses potential enterprise computing use cases such as business (process) intelligence and information retrieval and also describes demo applications that have been already developed.

Motivation

In their recent study *The Diverse and Exploding Digital Universe* IDC predicts that the amount of available digital information will reach 1800 Exabyte in 2011 (assuming that the amount of data will grow by 60 percent each year). This flood of information will not only make it more difficult to find needed information, it will also increase the complexity of dealing with information in many enterprises. In particular, it becomes increasingly challenging for enterprises to deal with emerging in-formation influencing their business model. In this respect, the iQser approach promises relief.

The benefits of the presented iQser approach can be summarized as follows: it saves time by automating information logistics simplifying the search within data as well as the organization of information. It enables the discovery of knowledge by analyzing unstructured information and it saves costs by a reducing complexity for application integration, application development and implementing services for process execution.

The remainder of this paper is organized as follows. Section 2 presents the iQser approach in detail. Section 3 summarizes typical application scenarios the presented approach can support. Section 4 discusses the approach and explains why current semantic technology is scarce and why the iQser approach is needed in practice. Section 5 discusses related work. Section 6 concludes with a summary and an outlook.